

ABSTRACT OF THE DISCLOSURE

Electric motor system including at least a first electric motor that includes a first rotor. The first rotor is mechanically coupled to an engine. At least a second electric motor includes a second rotor. The second rotor is mechanically coupled to a mechanical aggregate. An electronic power system is also included. Each of the first electric motor and the second electrical motor is electrically coupled to one another via the electronic power system in order to exchange electric power at a freely selectable voltage level.